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SYSTEM AND METHOD FOR IMPLEMENTING MULTIPLE  
INSTANTIATED CONFIGURABLE PERIPHERALS IN A CIRCUIT  
DESIGN

ABSTRACT OF THE DISCLOSURE

5           A method for structuring hardware description  
language code characterizes a peripheral design so as  
to facilitate multiple use of the code with different  
peripheral design configurations in a chip. The code  
provides one or more configuration options for the  
10 peripheral design in a configuration section of the  
hardware description language code. The one or more  
configuration options are differentiated by a  
configuration variable. The configuration options are  
selected by initializing a selected peripheral design  
15 configuration with the configuration variable, such  
that the value of the configuration variable determines  
the selection for that specific instance.